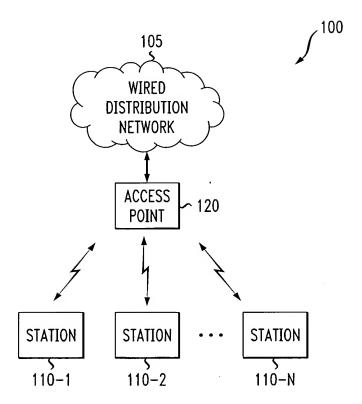


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FIG. 1

PRIOR ART





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FIG. 2

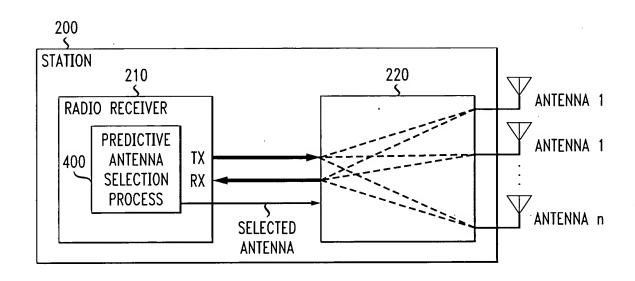
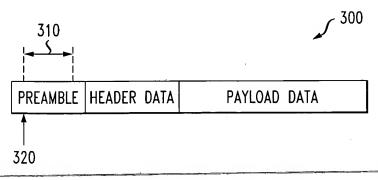


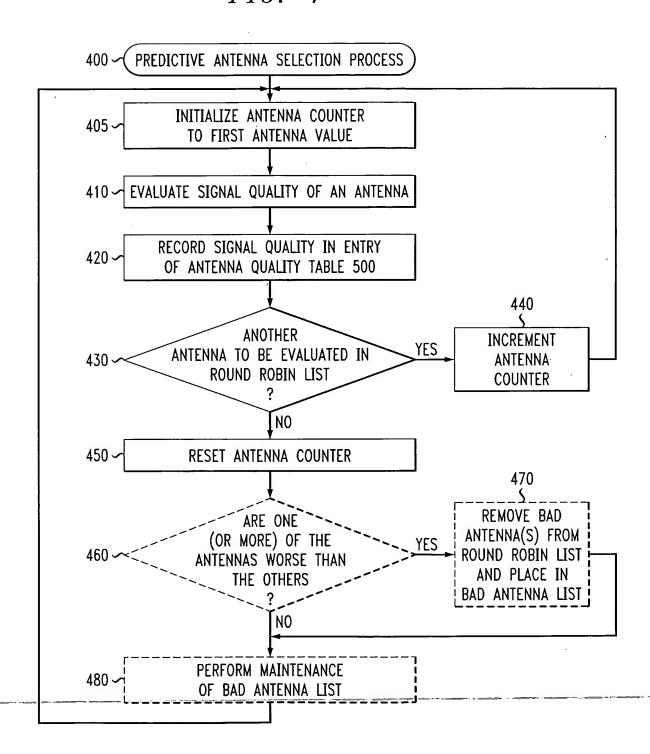
FIG. 3





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FIG. 4





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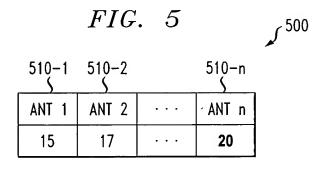


FIG. 6A

```
// initialize variables
function initialize () }
     list_of_good_antennas = 1..number_of_antennas;
     list_of_bad_antennas = empty;
     nr_good_receptions = 0;
     bad_reception = false;
     rx_antenna = first one in list_of_good_antennas;
     configure_receiver_antenna (rx_antenna);
     initialize Antenna Quality list;
}
// a frame has been received from the central node on antenna x, with a certain
signal quality
function FrameReceived (Antenna x, SignalQuality sq) }
    update value that belongs to antenna x in Antenna Quality list with new data sq
    // select the next good antenna from the list of good antennas, EXCEPT that
once
    // every 'max_good_receptions' one of the bad antennas is selected to refresh
its sq value
    if nr_good_receptions = max_good_receptions then
         nr_qood_receptions = 0;
                                                              // no bad antennas to
         if list_of_bad_antennas is empty then
measure
            -let-rx_antenna-=-next-one-in-list_of_good_antennas;<sup>-</sup>
             increment nr_good_receptions;
         else
             let rx_antenna = next one in list_of_bad_antennas;
```

fi



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FIG. 6B

```
else
         let rx_antenna = next one in list_of_good_antennas;
         increment nr_good_receptions;
    fi
    configure_receiver_antenna (rx_antenna);
     // put bad antennas in the 'bad' list, and put good antennas in the 'good' list
    if antenna x in list_of_good antennas AND
    it is worse by (margin + hysteresis) than any other antenna in the Antenna
     Quality list then
         remove antenna x from list_of_good_antennas;
         insert antenna x into list_of_bad_antennas;
     else if antenna x in list_of_bad_antennas AND
    it is not worse by (margin — hysteresis) than any other antenna in the Antenna
Quality list then
         remove antenna x from list_of_bad_antennas;
         insert antenna x into list_of_good_antennas;
}
// a frame is to be transmitted to node B
function TransmitFrame (frame) }
     let tx_antenna = the antenna in the Antenna Quality list with the highest
signal quality;
    configure_transmitter_antenna (tx_antenna);
    transmit (frame);
}.
```